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1 [Implementing a distributed firewall](#)



Sotiris Ioannidis, Angelos D. Keromytis, Steve M. Bellovin, Jonathan M. Smith

 November 2000 **Proceedings of the 7th ACM conference on Computer and communications security CCS '00**

Publisher: ACM Press

 Full text available: pdf(309.36 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: IKE, IP, IPsec, KeyNote, OpenBSD, access control, credentials, distributed, firewalls, network security, trust management

2 [A layered naming architecture for the internet](#)



Hari Balakrishnan, Karthik Lakshminarayanan, Sylvia Ratnasamy, Scott Shenker, Ion Stoica, Michael Walfish

 August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '04**, Volume 34 Issue 4

Publisher: ACM Press

 Full text available: pdf(110.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Currently the Internet has only one level of name resolution, DNS, which converts user-level domain names into IP addresses. In this paper we borrow liberally from the literature to argue that there should be three levels of name resolution: from user-level descriptors to service identifiers; from service identifiers to endpoint identifiers; and from endpoint identifiers to IP addresses. These additional levels of naming and resolution (1) allow services and data to be first class Internet objec ...

Keywords: distributed hash tables, global identifiers, internet architecture, middleboxes, name resolution, naming


3 [Network management views using delegated agents](#)



Germán Goldszmidt

 November 1996 **Proceedings of the 1996 conference of the Centre for Advanced Studies on Collaborative research CASCON '96**

Publisher: IBM Press

Full text available:  pdf(296.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The lack of an appropriate external data model is one of the reasons for the dearth of effective network management applications. Many network management computations over Management Information Bases (MIBs) cannot be practically accomplished through remote interactions. This paper describes the design of an mib Computations System that supports the dynamic definition of external data models for mibs. The system consists of a View Definition Language (VDL) to specify mib external views and SNMP- ...

4 Exploiting P2P systems for DDoS attacks



Naoum Naoumov, Keith Ross

May 2006 **Proceedings of the 1st international conference on Scalable information systems InfoScale '06**

Publisher: ACM Press

Full text available:  pdf(178.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

When a P2P system has millions of concurrently active peers, there is the risk that it could serve as a DDoS engine for attacks against a targeted host. In this paper we describe two approaches to creating a DDoS engine out of a P2P system: the first involves poisoning the distributed index in the peers; the second involves poisoning the routing tables in the peers. For both approaches, the targeted host does not have to be a participant in the P2P system, and could be a web server, a mail serve ...


5 Transport protocols: A receiver-centric transport protocol for mobile hosts with heterogeneous wireless interfaces



Hung-Yun Hsieh, Kyu-Han Kim, Yujie Zhu, Raghupathy Sivakumar

September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking MobiCom '03**

Publisher: ACM Press

Full text available:  pdf(577.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Numerous transport protocols have been proposed in related work for use by mobile hosts over wireless environments. A common theme among the design of such protocols is that they specifically address the distinct characteristics of the last-hop wireless link, such as random wireless errors, round-trip time variations, blackouts, handoffs, etc. In this paper, we argue that due to the defining role played by the wireless link on a connection's performance, locating the intelligence of a transport ...

Keywords: bandwidth aggregation, heterogeneous wireless networks, multi-homed mobile host, seamless handoff, server migration

6 A receiver-centric transport protocol for mobile hosts with heterogeneous wireless interfaces

Kyu-Han Kim, Yujie Zhu, Raghupathy Sivakumar, Hung-Yun Hsieh

July 2005 **Wireless Networks**, Volume 11 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(3.04 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Numerous transport protocols have been proposed in related work for use by mobile hosts over wireless environments. A common theme among the design of such protocols is that they specifically address the distinct characteristics of the last-hop wireless link, such as random wireless errors, round-trip time variations, blackouts, handoffs, etc. In this paper, we argue that due to the defining role played by the wireless link on a connection's performance, locating the intelligence of a transport ...

Keywords: bandwidth aggregation, heterogeneous wireless networks, multi-homed mobile host, seamless handoff, server migration

7 The Globus Striped GridFTP Framework and Server

William Allcock, John Bresnahan, Rajkumar Kettimuthu, Michael Link


November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC '05**

Publisher: IEEE Computer Society

Full text available:  pdf(2.16 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)


The GridFTP extensions to the File Transfer Protocol define a general-purpose mechanism for secure, reliable, high-performance data movement. We report here on the Globus striped GridFTP framework, a set of client and server libraries designed to support the construction of data-intensive tools and applications. We describe the design of both this framework and a striped GridFTP server constructed within the framework. We show that this server is faster than other FTP servers in both single-proc ...

8 An end-to-end approach to host mobility

 Alex C. Snoeren, Hari Balakrishnan


August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking MobiCom '00**

Publisher: ACM Press

Full text available:  pdf(1.35 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present the design and implementation of an end-to-end architecture for Internet host mobility using dynamic updates to the Domain Name System (DNS) to track host location. Existing TCP connections are retained using secure and efficient connection migration, enabling established connections to seamlessly negotiate a change in endpoint IP addresses without the need for a third party. Our architecture is secure—name updates are effected via the secure DNS update protocol, while TCP ...

9 On interdomain routing security and pretty secure BGP (psBGP)

 P.C. van Oorschot, Tao Wan, Evangelos Kranakis

July 2007 **ACM Transactions on Information and System Security (TISSEC)**, Volume 10 Issue 3

Publisher: ACM Press

Full text available:  pdf(469.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It is well known that the Border Gateway Protocol (BGP), the IETF standard interdomain routing protocol, is vulnerable to a variety of attacks, and that a single misconfigured or malicious BGP speaker could result in large-scale service disruption. In this paper, we present *Pretty Secure BGP (psBGP)*---a proposal for securing BGP, including an architectural overview, design details for significant aspects, and preliminary security and operational analysis. psBGP differs from other secur ...



Keywords: BGP, authentication, certificates, interdomain routing, public-key infrastructure, secure routing protocols, trust

10 Evaluating the tradeoffs of mobile code design paradigms in network management applications

Mario Baldi, Gian Pietro Picco

April 1998 **Proceedings of the 20th international conference on Software engineering ICSE '98**

Publisher: IEEE Computer Society

Full text available:  pdf(1.26 MB) 
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Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Distributed systems and grid computing (DSGC): J2EE server scalability through EJB replication

Sylvain Sicard, Noel De Palma, Daniel Hagimont

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

Publisher: ACM Press

Full text available:  pdf(568.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the development of Internet-based business, Web applications are becoming increasingly complex. The J2EE specification aims at enabling the design of such web application servers. These servers have to ensure scalability and availability of the supported applications. Scalability can be achieved using replication techniques or partitioning techniques. The aim of this paper is to compare these approaches. In a J2EE web application server, one important component is the EJB tier. In this con ...

Keywords: EJB, J2EE, partition, replication, scalability

12 Service infrastructure and network management: MobiDesk: mobile virtual desktop computing

Ricardo A. Baratto, Shaya Potter, Gong Su, Jason Nieh

September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking MobiCom '04**

Publisher: ACM Press

Full text available:  pdf(580.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present MobiDesk, a mobile virtual desktop computing hosting infrastructure that leverages continued improvements in network speed, cost, and ubiquity to address the complexity, cost, and mobility limitations of today's personal computing infrastructure. MobiDesk transparently virtualizes a user's computing session by abstracting underlying system resources in three key areas: display, operating system, and network. It provides a thin virtualization layer that decouples a user's computing ses ...

Keywords: computer utility, network mobility, on-demand computing, process migration, thin-client computing, virtualization

13 Signalling analysis in integrated 4G networks

Hakima Chaouchi, Ivan Armuelles, Ivan Ganchev, Máirtín O'Droma, Nino Kubinidze

January 2006 **International Journal of Network Management**, Volume 16 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(517.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Scarce radio resources and the ambition to increase the number of mobile customers with a guarantee of service are pushing mobile communication systems from homogeneous non-service convergent 2G and convergent-service 2.5G and 3G wireless systems to heterogeneous integrated and convergent service 4G networks. This evolution has had several consequences from network design, control and service management points of view. In the emerging integrated 4G networks one of the issues is the signalling of ...

14 Consistency enforcement and secure grids: Mesh: secure, lightweight grid middleware using existing SSH infrastructure

Paul Z. Kolano

June 2007 **Proceedings of the 12th ACM symposium on Access control models and technologies SACMAT '07****Publisher:** ACM PressFull text available: [pdf\(178.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Grid computing promises gains in effective computational power, resource utilization, and resource accessibility, but in order to achieve these gains, organizations must deploy grid middleware that, in most cases, does not adhere to fundamental security principles. This paper introduces a new lightweight grid middleware called Mesh, which is based on the addition of a single sign-on capability to the built-in public key authentication mechanism of SSH using system call interposition. The init ...

Keywords: SSH, access control, authentication, authorization, delegation, distributed systems, grids, middleware, security, single sign-on

15 Supporting personal mobility for nomadic computing over the internet

Yalun Li, Victor C. M. Leung

April 1997 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 1 Issue 1**Publisher:** ACM PressFull text available: [pdf\(1.42 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents a new paradigm for nomadic computing over the Internet called universal personal computing (UPC), where mobile users can access computing resources, network services, and personalized computing environments anywhere using any available terminals. The concept of UPC and system design issues are discussed, and the required system architecture capable of managing different mobile objects, i.e., users and terminals, in the UPC environment is presented. Modifications of connection ...

16 Wireless convergence architecture: a case study using GSM and wireless LAN

Nikos A. Nikolaou, Konstantinos G. Vaxevanakis, Sotirios I. Maniatis, Iakovos S. Venieris, Nicholas A. Zervos

August 2002 **Mobile Networks and Applications**, Volume 7 Issue 4**Publisher:** Kluwer Academic PublishersFull text available: [pdf\(341.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The evolution of wireless networks has motivated the expansion of the static business environment to a mobile and wireless one. However, current and forthcoming wireless technologies are characterized by different attributes, regarding coverage area, offered bandwidth and delay. The transparent conjunction of various wireless technologies into a single mobile terminal can further boost the wireless explosion. This paper presents the Wireless Convergence Architecture (WCA) that incorporates diffe ...

Keywords: GSM, TCP/IP, mobility, wireless LAN, wireless networks convergence

17 Security issues with TCP/IP

Renqi Li, E. A. Unger

June 1995 **ACM SIGAPP Applied Computing Review**, Volume 3 Issue 1**Publisher:** ACM PressFull text available: [pdf\(801.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

An introduction to network security , basic definitions and aa brief discussion of the

architecture of TCP/IP as well as the Open System Interconnection(OSI) Reference Model open the paper. The relationship between TCP/IP and of some OSI layers is described. An indepth look is provided to the major protocols in TCP/IP suite and the security features and problems in this suite of protocols. The security problems are discussed in the context of the protocol services.

Keywords: TCP/IP, Unix, network security, security

18 Specifying conflict of interest assertions in WS-policy with Chinese wall security policy



Patrick C. K. Hung, Guang-Sha Qiu

March 2003 **ACM SIGecom Exchanges**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: pdf(270.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A Web service is defined as an autonomous unit of application logic that provides either some business functionality or information to other applications through an Internet connection. Web services are based on a set of XML standards such as Simple Object Access Protocol (SOAP), Universal Description, Discovery and Integration (UDDI) and Web Services Description Language (WSDL). The benefits of adopting Web services over traditional business-to-business applications include faster time to produ ...

Keywords: Chinese wall security policy, WS-policy, WS-policy attachment, conflict of interest, delegation, matchmaking, security assertion, security policy, service locators

19 Networking and services: REDS: a reconfigurable dispatching system



Gianpaolo Cugola, Gian Pietro Picco

November 2006 **Proceedings of the 6th international workshop on Software engineering and middleware SEM '06**

Publisher: ACM Press

Full text available: pdf(758.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a new publish-subscribe middleware called REDS (REconfigurable Dispatching System) designed to tolerate *dynamic reconfigurations* of the dispatching infrastructure, like those occurring in scenarios characterized by fluid topologies as in mobile and peer-to-peer networks. We illustrate the modular architecture of REDS, which enables programmers to change the internal configuration of the middleware to suit the deployment scenario, focusing on the aspects concerned with the dynam ...

Keywords: content-based routing, dynamic reconfiguration, mobile and peer-to-peer computing, publish-subscribe

20 Position papers: A delay-tolerant network architecture for challenged internets



Kevin Fall

August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '03**

Publisher: ACM Press

Full text available: pdf(100.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The highly successful architecture and protocols of today's Internet may operate poorly in environments characterized by very long delay paths and frequent network partitions. These problems are exacerbated by end nodes with limited power or memory resources. Often deployed in mobile and extreme environments lacking continuous connectivity,

many such networks have their own specialized protocols, and do not utilize IP. To achieve interoperability between them, we propose a network architecture a ...

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IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding








IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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Setting up a delegated TCP connection - Patent 20040258076

A method of setting up a **delegated connection** for processing by an offload unit is described. The method comprises establishing a **TCP connection** and ...
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Processing data for a TCP connection using an offload unit ...

A **delegated connection** is a **TCP connection** processed by HOT Unit 250 with minimal ...
Processing a **delegated connection** by TCP Stack 215 is referred to as ...
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Article **delegate-en/2922** (05Apr25) **delegate tcp** handshake over ...

Subject: **delegate tcp** handshake over persistent **connection**? From: Tom Hansen
<pnifqbdi.ml @ **delegate.org**> Date: 25 Apr 2005 00:09:13 GMT Newsgroups: ...
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Article **delegate-en/2947** (05May20) Re: **delegate tcp** handshake over ...

Subject: Re: **delegate tcp** handshake over persistent **connection**? From: feedback @
delegate.org (Yutaka Sato) Date: 19 May 2005 23:32:53 GMT Newsgroups: ...
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pyGlobus.io.GSITCPSocket

Asynchronous server-side **TCP connection** establishment. **Delegate** a credential to a
remote entity. cred is the credential to **delegate** oids is the set of ...
dsd.lbl.gov/gtg/projects/pyGlobus/doc/public/pyGlobus.io.GSITCPSocket-class.html - 37k -
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[doc] Scalable Networking: Network Protocol Offload-Introducing TCP Chimney

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If the **connection** is offloaded, the segment will be forwarded to the NIC. All checks
requiring the **TCP DELEGATED** state must be performed by the Offload ...
download.microsoft.com/download/5/b/5/5b5bec17-7ea71-4653-9539-
204a672f11cf/TCP_Chimney.doc - [Similar pages](#)

Network Working Group M. Bagnulo Internet-Draft A. Garcia-Martinez ...

Each of the ISP has **delegated** an address space to the site: ISPA has When a **TCP**
connection is established, both ends of the **connection** should be ...
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[Twisted-Python] twisted.internet.ssl woes

Connection.doRead; either it is acquired along some inheritance path from
protocol.Protocol (?!), or this call gets **delegated to tcp.Connection**. ...
twistedmatrix.com/pipermail/twisted-python/2003-February/002739.html - 4k -
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Preserves established **TCP connections** through link failure - Allows load sharing, ... Each
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Setting up TCP/IP

On the General tab (for a local area **connection**) or the Networking tab (for all other **connections**), click Internet Protocol (**TCP/IP**), and then click ...

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